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Application No. 10/716,899 Response to Office Action

Customer No. 01933

## Listing of Claims:

- (Currently Amended) An ink jet recording head 1. maintenance apparatus for an ink jet recording head which includes a nozzle face having a plurality of nozzles that eject ink as drops, said maintenance apparatus comprising:
- a plurality of individual wiping members, each of which is individually selectable to wipe the nozzle face independently. which have a nozzle face formed with nozzles, and wipe the nozzle face of the ink jet recording head for ejecting ink in a form of drops of ink from the nozzles, and at least one of which differs in a is formed to apply a different wiping force to be applied to the nozzle face than another of the wiping members;
- a wiping member selecting means mechanism for selecting the optimum one of the individual wiping members; member for wiping the nozzle face [[,]] from among the plurality of wiping members; and
- a wiping mechanism for wiping the nozzle face by with the optimum selected individual wiping member selected by the wiping member selecting means.

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- 2. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 1, wherein the wiping mechanism includes:
- a wipe support member supporting the plurality of wiping members;
  - a moving mechanism supporting which movably supports the wipe support member to be movable along the nozzle face; [[,]] and moving the wipe support member thus supported, along the nozzle face; and
- a positioning mechanism for positioning the optimum selected individual wiping member selected by the wiping member selecting means, in a contact position in which the optimum selected individual wiping member comes into contact with the nozzle face in such a state that while the wipe support member is being moved along the nozzle face by the moving mechanism.
  - 3. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 2, wherein the positioning mechanism includes:
  - a wiping member moving mechanism for moving the optimum selected individual wiping member to a predetermined pressing position; and
    - a pressing mechanism for pressing, toward the contact position, the optimum selected individual wiping member moved to

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a the predetermined pressing position. by the wiping member moving mechanism.

Claim 4 (Canceled).

5. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 2, wherein each of the plurality of individual wiping members have, at their tip, comprises at a tip thereof an edge portion extending along a direction intersecting the a direction of movement; and

wherein the positioning mechanism positions the optimum selected individual wiping member in the contact position so that the edge portion of the optimum selected individual wiping member will come into contact contacts with the nozzle face while the wipe support member is moved along the nozzle face.

6. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 5, wherein the plurality of wiping members are formed of an elastic material; and

wherein the positioning mechanism positions the optimum selected individual wiping member in the contact position so that its the edge portion may be thereof is pressed against the nozzle face by the elastic force of the optimum selected individual wiping member.

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- 7. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 1, wherein each of the plurality of individual wiping members are is so formed as to be apply a different in the wiping force against the nozzle face.
- 8. (Original) An ink jet recording head maintenance apparatus according to claim 1, wherein the plurality of wiping members are formed of an elastic material.
- 9. (Original) An ink jet recording head maintenance apparatus according to claim 1, wherein the plurality of wiping members are formed of a porous material.
- 10. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 2, wherein the plurality of wiping members are removably formed in relation to removable from the wipe support member.
- 11. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 2, wherein the wipe support member are removably formed in relation to is removable from the moving mechanism.

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- (Currently Amended) An ink jet recording head maintenance apparatus according to claim 1, wherein the wiping member selecting means mechanism selects said one of the optimum individual wiping member members in accordance with an elapsed time after the execution of a preceding wiping operation.
- (Currently Amended) An ink jet recording head 13. maintenance apparatus according to claim 1, for an ink jet recording head which includes a nozzle face having a plurality of nozzles that eject ink as drops, said maintenance apparatus comprising:
- a plurality of wiping members for wiping the nozzle face of the ink jet recording head, at least one of which is formed to apply a different a wiping force to the nozzle face than another of the wiping members;
- a wiping member selecting mechanism for selecting one of the 10 wiping members for wiping the nozzle face; and
  - a wiping mechanism for wiping the nozzle face with the selected wiping member:

wherein the wiping member selecting means mechanism selects the optimum one of the wiping member members in accordance with an environmental history after the execution of the a preceding wiping operation.

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- 14. (Currently Amended) An ink jet recording head maintenance apparatus according to claim 1, for an ink jet recording head which includes a nozzle face having a plurality of nozzles that eject ink as drops, said maintenance apparatus comprising:
- a plurality of wiping members for wiping the nozzle face of the ink jet recording head, at least one of which is formed to apply a different a wiping force to the nozzle face than another of the wiping members:
- a wiping member selecting mechanism for selecting one of the wiping members for wiping the nozzle face; and
  - a wiping mechanism for wiping the nozzle face with the selected wiping member;

wherein the wiping member selecting means mechanism selects the optimum one of the wiping member members in accordance with the a number of counts of printed sheets printed after the execution of the a preceding wiping operation.

- 15. (Currently Amended) An ink jet recording apparatus, comprising:
  - a conveying mechanism for conveying a recording medium;

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an the ink jet recording head, which ejects having a nozzle face formed with nozzles, and ejecting ink from the nozzles to the recording medium being conveyed by the conveying mechanism;

a control section for driving to control controlling the conveying mechanism and the ink jet recording head in accordance with a printing data; and

the ink jet recording head maintenance apparatus according to claim 1.

(Currently Amended) An ink jet recording apparatus, comprising:

a conveying mechanism for conveying a recording medium; an the ink jet recording head, which ejects having a nozzle face formed with nozzles, and ejecting ink from the nozzles to the recording medium being conveyed by the conveying mechanism;

a control section for driving to control controlling the conveying mechanism and the ink jet recording head in accordance with a printing data; and

an ink jet recording head maintenance apparatus according to claim 2.

(Currently Amended) An ink jet recording apparatus, 17. comprising:

a conveying mechanism for conveying a recording medium;

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face formed with nozzles, and ejecting ink from the nozzles to the recording medium being conveyed by the conveying mechanism;

a control section for  $\frac{driving}{driving}$  to  $\frac{driving}{driving}$  t

an ink jet recording head maintenance apparatus according to claim 3.

Claim 18 (Canceled).

- 19. (Currently Amended) An ink jet recording apparatus, comprising:
- a conveying mechanism for conveying a recording medium;

  an ink jet recording head, which ejects having a nozzle face

  formed with nozzles, and ejecting ink from the nozzles to the

  recording medium being conveyed by the conveying mechanism;
- a control section for <u>driving to control controlling</u> the conveying mechanism and the ink jet recording head in accordance with a printing data; and
- an ink jet recording head maintenance apparatus according to claim 5.

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20. (Currently Amended) An ink jet recording apparatus, comprising:

a conveying mechanism for conveying a recording medium;

an the ink jet recording head, which ejects having a nozzle

face formed with nozzles, and ejecting ink from the nozzles to

the recording medium being conveyed by the conveying mechanism;

a control section for driving to control controlling the conveying mechanism and the ink jet recording head in accordance with a printing data; and

an ink jet recording head maintenance apparatus according to claim 6.